Title (en)

Secondary battery

Title (de)

Sekundärbatterie

Title (fr)

Batterie secondaire

Publication

EP 2500959 B1 20140507 (EN)

Application

EP 11178239 A 20110822

Priority

- US 201161452520 P 20110314
- US 201113187344 A 20110720

Abstract (en)

[origin: EP2500959A1] Provided is a secondary battery including a fuse part that can continually function as a fuse. In the state where a first short circuit plate contacts a connecting plate to form a short circuit, even when heat generated from the short circuit melts the first short circuit plate, a second short circuit plate contacts the connecting plate to maintain a short circuit state, so that the fuse part can continually function as a fuse. The secondary battery includes an electrode assembly, a case accommodating the electrode assembly, a cap assembly including a cap plate sealing the case and having a short circuit hole, and a short circuit means including a first short circuit plate, a second short circuit plate, and a connecting plate. The first short circuit plate is disposed in the short circuit hole. The second short circuit plate contacts a lower part of the first short circuit plate. The connecting plate is spaced apart from the cap plate and is disposed outside the cap plate to cover the short circuit hole.

IPC 8 full level

H01M 10/04 (2006.01); **H01M 10/42** (2006.01); **H01M 50/147** (2021.01); **H01M 50/528** (2021.01); H01M 50/55 (2021.01); H01M 50/553 (2021.01)

CPC (source: EP KR US)

H01M 10/04 (2013.01 - KR); **H01M 10/0431** (2013.01 - EP KR US); **H01M 10/42** (2013.01 - EP KR US); **H01M 50/147** (2021.01 - EP KR US); **H01M 50/528** (2021.01 - EP KR US); **H01M 50/531** (2021.01 - KR); **H01M 50/543** (2021.01 - KR); **H01M 50/55** (2021.01 - KR); **H01M 50/553** (2021.01 - KR); **H01M 50/572** (2021.01 - KR); H01M 50/55 (2021.01 - EP US); H01M 50/553 (2021.01 - EP US); Y02E 60/10 (2013.01 - EP KR); Y02P 70/50 (2015.11 - EP KR)

Cited by

EP2395593A3; EP2922113A1; EP2927987A1; US9728762B2; US8748030B2; US9768436B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2500959 A1 20120919; **EP 2500959 B1 20140507**; CN 102683760 A 20120919; CN 102683760 B 20141008; JP 2012195278 A 20121011; JP 5441072 B2 20140312; KR 101285966 B1 20130712; KR 20120104911 A 20120924; US 2012237802 A1 20120920; US 8753765 B2 20140617

DOCDB simple family (application)

EP 11178239 A 20110822; CN 201110267293 A 20110909; JP 2011203036 A 20110916; KR 20110085714 A 20110826; US 201113187344 A 20110720